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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/533,849	10/24/2005	Hiroshi Fukui	71,051-007	7869
27305 7590 05/07/2008 HOWARD & HOWARD ATTORNEYS, P.C. THE PINEHURST OFFICE CENTER, SUITE #101			EXAMINER	
			LOEWE, ROBERT S	
39400 WOODWARD AVENUE BLOOMFIELD HILLS, MI 48304-5151		51	ART UNIT	PAPER NUMBER
			1796	
			MAIL DATE	DELIVERY MODE
			05/07/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)		
	10/533,849	FUKUI, HIROSHI		
Office Action Summary	Examiner	Art Unit		
	ROBERT LOEWE	1796		
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet wit	h the correspondence address		
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING  - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory peri  - Failure to reply within the set or extended period for reply will, by sta Any reply received by the Office later than three months after the may earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNIC 1.136(a). In no event, however, may a re od will apply and will expire SIX (6) MONI tute, cause the application to become ABA	ATION. ply be timely filed  THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).		
Status				
Responsive to communication(s) filed on 29     This action is <b>FINAL</b> . 2b) ☑ To 3) ☐ Since this application is in condition for allow closed in accordance with the practice under the second se	his action is non-final. wance except for formal matte			
Disposition of Claims				
4) ☐ Claim(s) 1-6 is/are pending in the application 4a) Of the above claim(s) is/are withd 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-6 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and Application Papers 9) ☐ The specification is objected to by the Exami	lrawn from consideration. d/or election requirement.			
10) The drawing(s) filed on is/are: a) and a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct of	nccepted or b) objected to be the drawing(s) be held in abeyand rection is required if the drawing(	ce. See 37 CFR 1.85(a). s) is objected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>				
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date	Paper No(s	ummary (PTO-413) /Mail Date formal Patent Application _·		

### **DETAILED ACTION**

Applicant's arguments/remarks, filed on 4/29/08, have been fully acknowledged. The instant application has been transferred from Examiner Matochik to Examiner Loewe.

## International Search Report

EP-1101798, cited on the international search report as an "X" reference, was not relied upon since it does not anticipate, nor render obvious, Applicants instant claims. Specifically, this reference does not anticipate either components (A1) or (A3) of instant claim 1.

### Claim Interpretation

The limitation of instant claim 1 that the heat conductive filler be surface treated with the silicone oil can be reasonably interpreted by a person having ordinary skill in the art as any composition wherein a silicone oil satisfying the limitations of (A1) and/or (A3) is present along with an untreated heat conductive filler. The presence of said silicone oil and said untreated heat conductive filler results in the interaction of the oil and filler in such a manner as to allow for surface treatment/modification to take place. The presence of other ingredients in the composition does not preclude such a surface-treatment from taking place. There is nothing claimed which requires that the heat conductive filler be **first** reacted/treated with the silicone oil and then the resultant surface treated filler be blended with other ingredients in the composition.

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Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-6 are rejected under 35 U.S.C. 102(b) as being anticipated by Mine et al. (US Pat. 6,040,362.

Claim 1: Mine et al. teaches a heat conductive polymer composition comprising untreated metal powders (6:64-8:14) and an adhesion promoting agent (5:10-22). Such adhesion promoting agents, such as the one taught at 5:25, satisfies the structural limitations of component (A1) (a = 1;  $R^1 = vinyl$ ;  $R^2 = methyl$ ; m = 0; n = 3; c = 1; d = 3; c + d = 4), and the one taught at 5:35, satisfies the structural limitations of component (A3) (e = 1;  $e = R^2 = methyl$ ;  $e = R^2 = methyl$ ; e =

Claim 2: Mine et al. further teaches that the heat conductive filler is alumina powder (7:4-5).

Claims 3 and 4: Mine et al. further teaches that the alumina powder is a substantially spherical/quasi spherical powder having a particle size of from 0.1 to 50 microns (7:23-33).

Mine et al. further teaches that the alumina powder can be a mixture of approximately 14% (50).

parts) of an irregular-shaped alumina powder and 86% of a substantially spherical/quasi spherical alumina powder (Practical example 3 of Table 2).

Claim 5: Mine et al. further teaches that the amount of adhesion promoter/silicone oil falls within the range of instant claim 5. Specifically, Mine et al. teaches that up to 20 parts by weight of adhesion promoter can be present per 100 parts of an organopolysiloxane having at least two alkenyl groups (6:13-22). Further, Mine et al. teaches that the metal powder may be present from 10 to 850 parts by weight per 100 parts by weight of component (A) (7:67-8:14). Therefore, Mine et al. indirectly teaches that the metal powder may be present from 50 to 4250 parts by weight per 100 parts of adhesion promoter/silicone oil, which substantially encompasses the range of instant claim 5.

Claim 6: Mine et al. further teaches that the composition further comprises an organopolysiloxane having at least two alkenyl groups which is different that component (A) of instant claim 1, and that reacts with an organohydrogenpolysiloxane via a hydrosilylation reaction (2:5-12).

#### Relevant Art Cited

The prior art made of record and not relied upon but is considered pertinent to applicants disclosure can be found on the attached PTO-892 form.

# Response to Arguments

Applicant's arguments with respect to claims 1-6 have been considered but are moot in view of the new ground(s) of rejection.

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Correspondence

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Robert Loewe whose telephone number is (571) 270-3298. The

examiner can normally be reached on Monday through Friday from 5:30 AM to 3:00 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Randy Gulakowski can be reached on (571) 272-1302. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

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like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/R. L./

Examiner, Art Unit 1796

30-Apr-08

/Randy Gulakowski/

Supervisory Patent Examiner, Art Unit 1796